



COC #221

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P140255  
 Work Order #: M108008

### CHAIN OF CUSTODY REPORT

Work Order #: M108008

CLIENT: BRISTOL		INVOICE TO: BRISTOL		<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Please Specify									
REPORT TO: ANNE KRANAWETTER		P.O. NUMBER: 21090											
ADDRESS: AMCHITKA, AK		PROJECT NAME: AMCHITKA											
PHONE: 907-770-0974 FAX: 770-0975		PROJECT NUMBER: 21090		*Turnaround Requests less than standard may incur Rush Charges.									
SAMPLED BY: ARV/CEM		REQUESTED ANALYSES											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PBB	Metals							MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMLA37SL	8/5/01 1115	Y	X							S	2		
2. 01AMLA38SL	8/5/01 1110	X	X							S	2		
3. 01AMLA39SL	8/5/01 1105	X	X							S	2		
4. 01AMLA40SL	8/5/01 1055	X	X							S	2		
5.													
6.													
7.													
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													

RELINQUISHED BY: Anne Kranawetter	DATE: 8/5/01	RECEIVED BY: Craig Bradle	DATE: 8/5/01
PRINT NAME: Anne Kranawetter FIRM: BRISTOL	TIME: 1144	PRINT NAME: Craig Bradle FIRM: NCA	TIME: 1144
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS: Sewage Lagoon Confirmation Sampling

TEMP: 7.5°C PAGE 1 OF 1



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20 August, 2001

Steve Johnson  
Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/09/01 11:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jerry Orlando  
Project Manager/QA

Work Orders included in this report:

**P1H0253**



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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116	Project: Amchitka Project Number: 210901, PO# 21090 Project Manager: Steve Johnson	Reported: 08/20/01 16:11
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMLA37SL	P1H0253-01	Soil	08/05/01 11:15	08/09/01 11:00
01AMLA38SL	P1H0253-02	Soil	08/05/01 11:10	08/09/01 11:00
01AMLA39SL	P1H0253-03	Soil	08/05/01 11:05	08/09/01 11:00
01AMLA40SL	P1H0253-04	Soil	08/05/01 10:55	08/09/01 11:00

North Creek Analytical - Portland

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9.

Jerry Orlando, Project Manager/QA

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**Total Metals per EPA 6000/7000 Series Methods  
 North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMLA37SL (P1H0253-01) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Arsenic	5.09	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	14.4	0.500	"	"	"	"	"	"	
Lead	4.22	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
<b>01AMLA38SL (P1H0253-02) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Arsenic	3.26	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	12.3	0.500	"	"	"	"	"	"	
Lead	4.74	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
<b>01AMLA39SL (P1H0253-03) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Arsenic	3.27	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	11.0	0.500	"	"	"	"	"	"	
Lead	4.03	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
<b>01AMLA40SL (P1H0253-04) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Arsenic	3.43	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	14.2	0.500	"	"	"	"	"	"	
Lead	4.60	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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**Mercury by EPA Method 1631**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMLA37SL (P1H0253-01) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Mercury	0.0124	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
<b>01AMLA38SL (P1H0253-02) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Mercury	0.0111	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
<b>01AMLA39SL (P1H0253-03) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Mercury	0.00962	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
<b>01AMLA40SL (P1H0253-04) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
Mercury	0.0157	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116	Project: Amchitka Project Number: 210901, PO# 21090 Project Manager: Steve Johnson	Reported: 08/20/01 16:11
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**Percent Dry Weight (Solids) per Standard Methods  
North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMLA37SL (P1H0253-01) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
% Solids	76.7	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
<b>01AMLA38SL (P1H0253-02) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
% Solids	74.5	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
<b>01AMLA39SL (P1H0253-03) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
% Solids	77.0	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	
<b>01AMLA40SL (P1H0253-04) Soil</b>						Sampled: 08/05/01 Received: 08/09/01			
% Solids	73.1	1.00	% by Weight	1	NCA SOP	08/13/01	08/14/01	1081268	

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Jerry Orlando, Project Manager/QA

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Steve Johnson

Reported:  
 08/20/01 16:11

**Total Metals per EPA 6000/7000 Series Methods - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
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**Batch 1081294 - EPA 3050**

**Blank (1081294-BLK1)** Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	ND	0.500	mg/kg						
Cadmium	ND	0.500	"						
Chromium	ND	0.500	"						
Lead	ND	0.500	"						
Selenium	ND	0.500	"						
Silver	ND	0.500	"						

**LCS (1081294-BS1)**

Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	10.1	0.500	mg/kg	10.0		101	80-120		
Cadmium	10.2	0.500	"	10.0		102	80-120		
Chromium	10.2	0.500	"	10.0		102	80-120		
Lead	9.95	0.500	"	10.0		99.5	80-120		
Selenium	9.91	0.500	"	10.0		99.1	80-120		
Silver	4.76	0.500	"	5.00		95.2	80-120		

**Duplicate (1081294-DUP1)**

Source: P1H0333-01 Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	8.34	0.500	mg/kg dry	5.42		42.4	40	Q-14
Cadmium	ND	0.500	"	ND			40	
Chromium	6.34	0.500	"	3.33		62.3	40	Q-14
Lead	9.56	0.500	"	7.85		19.6	40	
Selenium	0.551	0.500	"	0.745		29.9	40	
Silver	ND	0.500	"	ND		11.0	40	

**Matrix Spike (1081294-MS1)**

Source: P1H0333-01 Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	16.3	0.500	mg/kg dry	12.1	5.42	89.9	75-125		
Cadmium	11.1	0.500	"	12.1	ND	91.7	75-125		
Chromium	15.2	0.500	"	12.1	3.33	98.1	75-125		
Lead	17.8	0.500	"	12.1	7.85	82.2	75-125		
Selenium	12.4	0.500	"	12.1	0.745	96.3	75-125		
Silver	5.55	0.500	"	6.05	ND	90.0	75-125		

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116	Project: Amchitka Project Number: 210901, PO# 21090 Project Manager: Steve Johnson	Reported: 08/20/01 16:11
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**Total Metals per EPA 6000/7000 Series Methods - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081294 - EPA 3050**

Matrix Spike (1081294-MS2)	Source: PIH0253-01			Prepared: 08/13/01	Analyzed: 08/15/01					
Arsenic	16.2	0.500	mg/kg dry	13.0	5.09	85.5	75-125			
Cadmium	13.2	0.500	"	13.0	ND	101	75-125			
Chromium	22.5	0.500	"	13.0	14.4	62.3	75-125			Q-14
Lead	16.6	0.500	"	13.0	4.22	95.2	75-125			
Selenium	13.7	0.500	"	13.0	ND	104	75-125			
Silver	6.32	0.500	"	6.51	ND	96.3	75-125			

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**Mercury by EPA Method 1631 - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1081295 - EPA 7471</b>										
<b>Blank (1081295-BLK1)</b>										
Mercury	ND	0.00100	mg/kg							Prepared: 08/14/01 Analyzed: 08/17/01
<b>LCS (1081295-BS1)</b>										
Mercury	0.00990	0.00100	mg/kg	0.0100		99.0	85-115			Prepared: 08/14/01 Analyzed: 08/17/01
<b>Duplicate (1081295-DUP1)</b>										
										Source: P1H0252-04 Prepared: 08/14/01 Analyzed: 08/17/01
Mercury	0.0100	0.00100	mg/kg dry		0.0110			9.52	20	
<b>Matrix Spike (1081295-MS1)</b>										
										Source: P1H0252-04 Prepared: 08/14/01 Analyzed: 08/17/01
Mercury	0.0221	0.00100	mg/kg dry	0.0128	0.0110	86.7	75-125			
<b>Matrix Spike (1081295-MS2)</b>										
										Source: P1H0333-04 Prepared: 08/14/01 Analyzed: 08/17/01
Mercury	0.0494	0.00100	mg/kg dry	0.0115	0.0432	53.9	75-125			Q-02

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**Percent Dry Weight (Solids) per Standard Methods - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081268 - Dry Weight**

<b>Duplicate (1081268-DUP1)</b>	<b>Source: P1H0252-07</b>		<b>Prepared: 08/13/01 Analyzed: 08/14/01</b>							
% Solids	71.6	1.00 % by Weight			70.4			1.69	20	
<b>Duplicate (1081268-DUP2)</b>	<b>Source: P1H0253-01</b>		<b>Prepared: 08/13/01 Analyzed: 08/14/01</b>							
% Solids	77.2	1.00 % by Weight			76.7			0.650	20	

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**Notes and Definitions**

- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- Q-14 The Spike Recovery and/or RPD is outside of control limits due to a non-homogeneous sample matrix.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

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